

US EPA ARCHIVE DOCUMENT

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Kalamazoo River/Enbridge Spill - Removal POLREP-SITREP



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V



**Subject: SITREP #28**  
**Kalamazoo River/Enbridge Spill**  
**Z5JS**  
**Marshall, MI**  
**Latitude: 42.2395273 Longitude: -84.9662018**

**To:** Lt. Paul Baker, Kalamazoo County Sheriff's Office  
James Rutherford, Calhoun County Public Health Department  
Durk Dunham, Calhoun County Emergency Management  
F/LT Bonnie Kanicki-Wilson, Michigan State Police, Emergency Mgt.  
Greg Danneffel, MDNRE  
Mike McKenzie, City of Battle Creek  
Leon Zupan, Enbridge  
Susan Hedman, U.S. EPA Regional Administrator  
Rebecca Humphries, MDNRE  
Jim Sygo, MDNRE  
Connie Gibson, Calhoun County Sheriffs Office  
Cheryl Vosburg, City of Marshall  
David Chung, U.S. EPA  
Jason El-Zein, U.S. EPA  
Duty Officer, NRC  
Michael Chezik, U.S. Department of Interior  
Linda Nachowicz, U.S. EPA  
OSLTF USCG, USCG  
Jill Slaght, 7th District of Michigan  
Ken Brock, 7th District of Michigan  
Bruce Vanotteren, MDNRE  
Brian Pierzina, PHMSA Central Region  
Thomas Hemminger, USCG Grand Haven  
Ronna Beckmann, U.S. EPA  
Scott Corbin, Allegan County EMA Director

**From:** Jeff Kimble, U.S. EPA Incident Commander  
Stephen Wolfe, U.S. EPA On-Scene Coordinator  
Mark Durno, U.S. EPA Deputy Incident Commander

**Date:** 08/22/10

**Reporting Period:** 1900 hours 08/21/10 to 1900 hours 08/22/10

## 1. Introduction

### 1.1 Background

#### 1.1.1 Site History

##### Background Information

Site Number:	Z5JS	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	OPA	Response Type:	Emergency
Response Lead:	PRP	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	7/26/2010	Start Date:	7/26/2010
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:	E10527	Reimbursable Account	

#### 1.1.2 Incident Category

Emergency Response -- Pipeline Rupture

#### 1.1.3 Site Description

A 30-inch pipeline ruptured, releasing crude oil (NRC report of 19,500 barrels) into a culvert leading to Talmadge Creek. Talmadge Creek is a tributary to the Kalamazoo River. The response site is along Talmadge Creek and the Kalamazoo River running from Marshall, Michigan, to downstream of Battle Creek, Michigan. The Kalamazoo River is bordered by marshland and developed properties for the approximate 30-mile stretch of the response site.

#### 1.1.4 Preliminary Removal Assessment/Removal Site Inspection Results

Approximately 30 miles of the Kalamazoo River have been impacted. The Kalamazoo River experienced flooding before and after the spill. The river levels later fell and stranded oil in some backwaters, wetlands and floodplains. Talmadge Creek was boomed off at the confluence to the Kalamazoo River. Containment and absorbent boom were deployed along the Kalamazoo River and Talmadge Creek. Containment and absorbent boom also were deployed in Morrow Lake.

#### 1.1.5 Enforcement Activities, Identity of Potentially Responsible Parties

Enbridge is the RP.

On July 27, 2010, EPA issued an Administrative Order under section 311(c) of the Clean Water Act to Enbridge. Enbridge has submitted and EPA has approved the following deliverables required by the Order including but not limited to: *Operational Health and Safety Plan*; *Pipeline Repair Workplan*; *Sampling and Analysis Plan*; *Quality Assurance*

*Project Plan; Oil Containment and Recovery Plan; Source Area Remediation Plan; Remediation Plan for Downstream Impacted Areas; and Waste Treatment, Transportation, and Disposal Plan.*

## **1.2 Incident Objectives and Command Emphasis**

### **Incident Objectives**

- 1) Ensure health and safety of the public and response & recovery personnel.
- 2) Maintain the isolation of Talmadge Creek and Kalamazoo River from the source area.
- 3) Contain and recover oil and contaminated vegetation in Talmadge Creek and Kalamazoo River.
- 4) Maintain effective unified communications with cooperating & assisting agencies and the public.
- 5) Perform remediation & restoration of all affected public & private areas of river & river systems.
- 6) Provide protection of environmentally and culturally sensitive areas including wildlife and historic properties.
- 7) Protect threatened and endangered species & continue to recover & rehabilitate injured wildlife.
- 8) Maintain Joint Information Center function.
- 9) Continue to collect, coordinate, manage and communicate environmental and public health data.
- 10) Obtain input from multi-agency Science Team to help establish protocols to guide cleanup of environmentally impacted areas.

### **Command Emphasis**

- 1) Implement operations metrics display in all situations and operations updates to UC.
- 2) Enbridge to maintain primary responsibility for planning cycle and IAP development:
  - Monitor effectiveness of IAP briefing and use by Operations; and
  - Continue transition of IAP development from EPA to Enbridge.
- 3) Concentrate resources for river, shore, and floodplain cleanup and sheen management in Division C, with emphasis on increased overall work efficiencies.
- 4) SCAT update on entire river system.
- 5) Review SCAT recommendations with Science Team, with emphasis on Division C, to coordinate near-term cleanup efforts.
- 6) Re-evaluate and enhance current, continuous, comprehensive subsurface monitoring in the Kalamazoo River and at Morrow Lake.

### 1.3 Strategic Considerations

- 1) Increase emphasis on improving overall work efficiencies.
- 2) Continue shift of monitoring resources (air, water, sediment) and analytical resources from EPA to Enbridge.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

The response site extends from the pipeline break to the dam at the end of Morrow Lake. Operationally, the response has been divided into two Oil Recovery and Cleanup Branches: East and West. These branches have been geographically divided into five Divisions, A through E, with Division A starting at the pipeline break and Division E ending at the western edge of Morrow Lake (see attached figure). The East Branch includes Divisions A and B and the West Branch includes Divisions C, D and E. Division C is currently an area of command emphasis and has been further subdivided into four groups performing similar response activities in order to accelerate cleanup progress in that Division. Certain control points are denoted by division letter then control point number (i.e., C3 refers to control point three within Division C). Additionally the entire length of the site is now divided into one-quarter mile sections.

The Unified Command organizational charts (ICS 207 forms) are presented in Figures 1-4. The ICS 207 Forms describe in detail the work breakdown structure for the response action.

The following activities occurred during the reporting period from 1900 hours on August 21 to 1900 hours on August 22, 2010:

#### Division A

Division A has extended into the upstream portion of Division B (to the upstream side of location B2) since the operations required there are more similar to those in Division A than Division B.

#### **Enbridge**

Enbridge reported that it continued skimming oil as well as excavating, backfilling, and dewatering the oil containment within Division A. SCAT operations, soil scraping and hand-digging of hotspots continued within Division A. Silt fence was repaired at Talmadge Creek.



## **EPA**

EPA observed Enbridge ongoing backfilling operations. EPA observed Enbridge's continuing dewatering and excavation efforts. Excavation of hotspots continues. EPA observed hydrostatic testing of the pipe continues.

### **Division B**

#### **Enbridge**

Enbridge reported that it continued oil collection at boom containment sites and replaced contaminated boom as required. Two-wheeled and four-wheeled skimmers were sent for decontamination in Division B. Enbridge coordinated with Barr Engineering to obtain approval for installing a mat road through a contaminated march in Location B3 which needs scraping. Crews worked on chipping and scraping of oiled bank vegetation and soil along Talmadge Creek.

## **EPA**

EPA observed continued skimming operations. EPA night operations noted visible oil between Location B4 to Location B5 where booms, swamp mats and pom-poms were missing. EPA inquired of Enbridge staff as to why booms and mats were removed but did not receive a definitive answer. EPA and START continued collected turbidity data during bank excavation along Talmadge Creek. Approximately 2,200 feet of silt fence was placed along Talmadge Creek was completed along the west side of I-69 (to Road Mile 15.5) to approximately Location B4.4. Bank excavation west of I-69 progressed west of Location B4.5 by about 300 feet.

Odor persisted in most of Division B and was noticeably worse between Location B4.5 and Location B4.7.

FOBs noted crews utilizing gasoline powered leaf blowers to direct product towards vacuum truck located on the shore. Safety was notified of this potential safety concern. Additionally, FOBs noted at Location B2 pools of product forming under the wooden road.

### **Division C**

#### **Enbridge**

Enbridge reported that it is standing up a new boom deployment site. Enbridge reported that it maintained boom and replaced absorbents, sweep and snare. Additionally, Enbridge reported that oil collection was going well through the use of two catch basins.

**EPA**

EPA observed Enbridge performing boom maintenance, vegetation removal, snare boom and pad replacement and shoreline and vegetation washing. EPA noted oil pooled above Cresco Dam and requested removal of the oil. EPA noted vegetation washing without downstream boom placement. The Enbridge operations supervisor was notified. An Enbridge contractor was observed smoking during work activities in Group 3 (MP 10 to MP 12). Contractor's foreman notified. On shore oil pools are being marked so that off shore oil removal teams can address. USCG received a complaint of oil in the marsh area which EPA forwarded to Enbridge for action. No oil was observed inside of the marsh area or along the shore.

**Division D****Enbridge**

Enbridge reported that boom maintenance, vegetation removal, and skimming operations continued.

**EPA**

EPA observed boom maintenance activities and the collection of oiled debris and vegetation. Oil sheen was visible floating downstream of Location D5 (Custer Street Bridge).

**Division E****Enbridge**

Enbridge reported cutting vegetation and removing debris today. Enbridge set up decontamination for boats and will begin using E2 for boat launching. Enbridge reported deploying more silt fence in Location E4 and investigating Morrow Lake for sheen and tar balls.

**EPA**

EPA observed oil collection operations conducted in Division E. Enbridge SCAT tentatively selected a location for second line of gabion boxes at Location E0.5.

**Branch Operations**

In addition to the East and West Recovery Branches, EPA, USCG and Enbridge Operations have five Branches that conduct activities in all Divisions: DECON, Environmental Compliance and Oversight; Monitoring; Wildlife Environmental/Damage Assessment; and Air Ops.



### Environmental Compliance and Oversight Branch

Enbridge reported they provided oversight for cleanup activities within Divisions A, B and C.

EPA observed sampling of contaminated soil, air monitoring, surface water, and debris. Air monitoring in Division B indicated a high benzene reading (noted in Division B Section).

### DECON Branch

#### **Enbridge**

Enbridge submitted a decontamination plan and report that approval of that plan is awaiting review by two more groups. Approval is now anticipated by the end of the day (August 22<sup>st</sup>, 2010).

#### **EPA**

EPA reviewed the draft decontamination plan and provided comments to Enbridge.

### Monitoring Branch

#### **Enbridge**

Enbridge reported that they collected 30 surface water samples, 15 potable water samples, and 1 sediment sample. The air sampling program continues to collect 24-hour grab samples, summa mini-can samples, grab samples, and passive dosimeter samples in addition to the real-time air monitoring samples.

Enbridge reported that its air sampling program continued to focus around Baker Estates mobile home park, the Ceresco Dam, and the leak site.

#### **EPA**

EPA conducted continued air monitoring in all divisions. Tedlar bag air samples were collected in the 11 grid areas of Division B exposure units and in the five focus areas (Daycare Center, Baker Estates, Frac Tank Storage Area, Squaw Creek and Ceresco Dam). EPA conducted air monitoring in response to an odor complaint. EPA observed the Enbridge air monitoring crew in Divisions B and C. Tedlar bag sampling results were below 1 ppbv for benzene in response to the air monitoring results at Location B4.

EPA collected the following monitoring samples:

Media	Sample Type	Number collected
Air	Summa Canister	0
Air	Tedlar Bags	31
Air	Monitoring Samples	429
Surface Water	Grab	2
Sediment	Grab	0

During this operational period SCAT teams continued shoreline and over bank oiling analysis in sections between Location C2.25 to Locations C3.25.

#### Wildlife Damage Assessment Branch

USFWS worked with the Wildlife Branch to address oil-impacted wildlife. The wildlife center continued to receive oiled animals collected along the Kalamazoo River. There are 186 animals in live care, the majority of which are Canada Geese and turtles. An oiled beaver was trapped by USDA and USFWS arranged for a professional beaver trapper to bring the beaver to the rehabilitation center. A total of 245 animals have been rehabilitated and released.

#### Air Ops Branch

##### **Enbridge**

Enbridge flew 8 over-flights yesterday and reported observing broken sheen in a boomed area above Morrow Lake and no visible sheen on Morrow Lake.

##### **EPA**

EPA conducted one over-flight of the river. Observations made during over-flights are reported at the daily situational briefings.

## 2.1.2 Progress Metrics

All progress metrics in Section 2.1.2 are as reported by Enbridge unless otherwise indicated.

### Boom Report

Number of Locations	41
Boom Deployed (feet)	170,482*

Note: Since the transition of EPA's contractor's to Enbridge at 1900 hrs on 08/12/10, all boom is now controlled by Enbridge.

\*as of 8/22/10 07:00

### Waste Tracking

Waste Stream	Quantity Shipped 8/20/2010	Cumulative Quantity Shipped*	Quantity On-Site Awaiting Disposal*
Soil <sup>1</sup>	840 yd <sup>3</sup>	12,379 yd <sup>3</sup>	19,075 yd <sup>3</sup>
Debris <sup>2</sup>	875 yd <sup>3</sup>	8325 yd <sup>3</sup>	NA
Untreated Water <sup>3</sup>	30,000 gallons		
Pre-treated Water <sup>4</sup>	0 gallons		
Oily Water (Griffith, IN)	180,800 gallons		

\* Information for water (other than daily quantity shipped) is reported in other tables below. Quantity awaiting disposal is estimated.

NA – Not provided by Enbridge

1. Benzene-impacted soil is being sent to EnviroSafe.
2. Roll-off boxes containing waste sorbents, boom, pads, plastic, PPE, and oiled vegetation and biomass are being sent to Michigan Disposal.
3. Untreated water (hazardous waste) is being sent to Dynecol.
4. Pre-treated water is being sent to the Battle Creek POTW.

### Oily Water Recovery Tracking

Note: Some of the values in the tables below have been audited and reconciled by Enbridge and may not correlate with previously reported values.

Oily Water Collected by Location	
Location	Cumulative Total Collected (gallons)
Division A	4,042,281
Division B	2,610,825
Division C	737,900
Division D	117,825
Division E	43,750
Undetermined	109,200
<b>TOTAL</b>	<b>7,661,781</b>

<b>Oily Water Shipped Off-Site</b>		
<b>Oily Water Leaving Site</b>	<b>Destination</b>	<b>Cumulative Quantity Shipped (gallons)</b>
Untreated Water (Haz Waste)	Dynecol, Detroit MI	1,499,225
Pre-treated Water	Battle Creek POTW	1,968,700
Oily Water	RP facility, Griffith IN	2,076,000
<b>TOTAL</b>		<b>5,543,925</b>

<b>Oily Water Volume Summary (gallons)</b>	
Oily Water Collected	7,661,781
Oily Water Shipped Off-site	5,543,925
<b>OILY WATER REMAINING ON-SITE</b>	<b>2,117,856</b>

<b>Oil-Water Separation at Griffith IN Facility (gallons)</b>	
Oil	633,000
Water	1,443,000
<b>TOTAL</b>	<b>2,076,000</b>

## 2.2 Planning Section

The ENVL Countermeasures expert observed and videotaped gabion baskets deployment and discussed countermeasure techniques with Ops and Technical Services Group. Additionally, the ENVL discussed subsurface sampling strategies with Ops.

### 2.2.1 Anticipated Activities for Next Reporting Period

In the next operational period, Operations anticipates performing the same or similar activities as in the previous operational period, with a focus on activities in Division C.

### 2.2.2 Issues

There was no Public Health Unit meeting today and Tedlar bags submitted for analysis showed no detections for benzene.

## 2.3 Logistics Section

EPA Logistics continued planning the ICP relocation with the Enbridge Move Team to the new ICP location at 1601 Pratt Avenue, Marshall, Michigan. EPA monitored construction progress. Boardwalk construction is complete. Lavatory needs plumbing work for low water pressure. EPA revised site traffic pattern to address pedestrian safety issues. Accompanied EPA Safety Officer for safety walk through and reviewed his recommendations with Enbridge FACIL. Pushed move information flow to ICP staff and managers. Installation of the information technology wiring is on-going.

## 2.4 Finance Section

The current NPFC issued ceiling is \$13 million. Approximately 89.0% of the ceiling has been spent through August 21, 2010, with a burn rate of \$349,935 per day. These cost summaries reflect only EPA-funded expenditures for the incident.

### FPN E10527 - Enbridge Pipeline Oil Spill 8/21/2010

ERRS Contractors	Est. Expended	Est Burn Rate (Lastest Daily)
EQM (EPS50802)	T057 \$1,288,393	\$1,500
	T060 166,500	18,500
LATA (EPS50804)	1,451,396	0
ER LLC (EPS50905)	723,669	0
ERRS Contractors	<u>\$3,629,958</u>	<u>\$20,000</u>
START Contractor		
WESTON (EPS50604)	<u>3,119,226</u>	<u>139,697</u>
Response Contractor Sub-		
Totals	\$6,749,184	\$159,697
EPA Funded Costs:		
Total EPA Costs	2,152,953	106,576
Pollution Removal Funding		
Agreements:		
US		
FWS	271,320	8,560
Total Other Agencies	\$1,234,032	\$40,284
Sub-Totals	\$10,136,169	\$306,557
Indirect Cost (14.15%)	<u>1,434,268</u>	<u>43,378</u>
Total Est. Oil Spill Cost	<u>\$11,570,437</u>	<u>\$349,935</u>
Oil Spill Ceiling authorized by USCG	<u>\$13,000,000</u>	
Oil Spill Ceiling Available		
Balance	\$1,429,563	
Est. Percentage Spent	89.0%	

## 2.5 Safety Officer

One minor first aid injury was reported overnight. No significant issues were reported during day operations.

## 2.6 Liaison Officer

The LNO reported no activity.

## 2.7 Information Officer

PIO/Community Involvement staff prepared for the move of the ICP.

EPA PIO staff, along with Calhoun County Health occupied a table at the Calhoun County Fair, distributing Enbridge Oil Spill information via FAQ fact sheets and EPA giveaway items. Various individuals showed their interest in the EPA's efforts. The overall response was positive.

JIC staff operated the media inquiry line and performed media monitoring.

### **Media Inquiry Line (888-363-8632)**

Calls received during reporting period: One

A call regarding the availability of a bird snare from the Lansing Zoo was forwarded to the Michigan DNR.

Enbridge reported the following call volume and community center visits:

### **Oil Spill Public Information Hotline (800-306-6837)**

Calls received during reporting period: 46

### **Community Center Visits: 14**

Visits by location during reporting period:

Battle Creek 6

Marshall 8

Enbridge reported that it received three inquiries from its [www.response.enbridgeUS.com](http://www.response.enbridgeUS.com) website.

## 2.8 Response Actions to Date

Recovery of oil and contaminated soil and debris continues. Containment boom, sorbent boom, skimming equipment, vacuum trucks and other equipment has been used to support oil collection and removal along Talmadge Creek and the Kalamazoo River. Contaminated soils are being excavated from Divisions A and B. Replacement of the



damaged pipeline and stabilization of the excavation are progressing. Contaminated shoreline vegetation along the creek and river is being cleaned or removed to control sheen. Recovered materials are being handled on-site and prepared for off-site transport. Tanker trucks are transporting the recovered oil to a facility owned by the RP with available storage in Griffith, Indiana. Oil-contaminated soils and other materials are being transported off-site for disposal.

EPA, ERT, START and RP contractors, with the support of the ERT Mobile Lab and Michigan National Guard Civil Support Team, have monitored and sampled air quality along the river and throughout multiple residential areas. A heavy emphasis was placed on specific monitoring for benzene as it is a recognized contaminant of concern for this response.

Water samples were collected for analysis from surface water, river and lake water columns, as well as private drinking wells along the length of the impacted areas of the Kalamazoo River. Water samples were also collected downstream of the Morrow Lake Dam. Validated analytical sampling results are now being posted to the public incident website (<http://www.epa.gov/enbridgespill/data/datawater.html>).

Enbridge removed the affected area of pipe, followed the cut out/repair plan, and completed a pipe investigation (50 feet upstream and downstream of the cut points) on August 7, 2010. The affected length of pipe has been repaired but is not yet operational.

A voluntary evacuation was issued by CCPH, in consultation with MDCH and ATSDR, for several residences located immediately downstream of the spill site along Talmadge Creek, up to its confluence with the Kalamazoo River. This voluntary evacuation was based on review of air monitoring results for benzene around oil collection areas. On August 16, 2010, CCPH lifted the recommended evacuation for the northwest portion of the voluntary evacuation zone after air monitoring and sampling results showed benzene levels below established action levels. On August 18, 2010, air sampling results for the remaining evacuation zone areas confirmed that benzene levels were below action levels allowing for re-occupancy. The Calhoun County Health Department worked on notifying residents.

Contingency Plans have been developed for several areas downstream of Morrow Lake, including Lake Michigan, in the case oil moves past the Morrow Lake Dam.

On August 17, 2010, EPA approved the following revised plans submitted by Enbridge: *Remediation Plan for Downstream Impacted Areas*, *Source Area Remediation Plan*, *Quality Assurance Project Plan* and *Sampling and Analysis Plan*. All plans submitted by Enbridge as required by the July 27, 2010, Administrative Order have now been approved.

### 3. Participating Entities

#### 3.1 Unified Command

U.S. EPA

MDNRE

Michigan State Police Emergency  
Management Division

City of Battle Creek

Calhoun County Public Health  
Department

Calhoun County Emergency  
Management

Kalamazoo County Sheriff

Enbridge (Responsible Party)

#### Cooperating and Assisting Agencies Cooperating Agencies

51<sup>st</sup> Civil Support Team Michigan  
National Guard

ATSDR

Allegan County Emergency  
Management

American Red Cross

Calhoun Conservation District

Calhoun County Commission

City of Kalamazoo

City of Marshall

Emmett Township

Federal Energy Regulatory Commission

Fredonia Township

Kalamazoo County Office of Emergency  
Management

Kalamazoo River Watershed Council

Marshall Area Firefighters Ambulance  
Authority

Marshall Police Department

Marshall Township Government and  
Fire Department

Michigan Department of Agriculture

MDCH

MIOSHA

National Transportation Safety Board

Natural Resource Group

NOAA

Oakland County HAZMAT  
OSHA

PHMSA

USCG

U.S. Department of the Interior/USGS

USFWS

#### 3.3 Congressional Presence

State Representative Jase Bolger

State Representative Kate Segal

State Representative Ken Kurtz

State Representative Phil Browne

State Representative Phyllis Browne

State Representative Bob Geuck

State Representative Tanya Schuitmaker

State Senator Mike Nofs

U.S. Congressman Mark Schauer

U.S. Senator Carl Levin

U.S. Senator Debbie Stabenow

#### 4. Personnel On Site

Agency/Entity	Numbers Reported
EPA	52
START	80
Calhoun County Public Health Dept. (CCPH)	1
Calhoun County (CC) Sheriff	6
City of Battle Creek	3
Kalamazoo Sherif	2
MDA	0
MDCH	0
MDNRE	11
Michigan State Police (MSP)	7
NOAA - National Weather Service	2
NOAA- NRDA	1
USCG	12
USDA	2
USFWS	11
USFWS Contractors	2
Enbridge	24
Enbridge Contractors	1281
<b>Total</b>	<b>1497</b>

## 5. Definition of Terms

ATSDR	Agency for Toxic Substances and Disease Registry
CCPH	Calhoun County Public Health
CIC	Community Involvement Coordinator
DMU	Data Management Unit
EMT	Emergency Medical Technician
ENVL	Environmental Unit Leader
EPA	Environmental Protection Agency
ERRS	Emergency and Rapid Response Services
ERT	Emergency Response Team
EU	Environmental Unit
GLNPO	Great Lakes National Program Office
H <sub>2</sub> S	Hydrogen Sulfide
HASP	Health and Safety Plan
IAP	Incident Action Plan
IC	Incident Commander
ICP	Incident Command Post
IN	Indiana
JIC	Joint Information Center
LEL	Lower Explosive Limit
LNO	Liaison Officer
LSC	Logistics Section Chief
MDA	Michigan Department of Agriculture
MDCH	Michigan Department of Community Health
MDMB	Michigan Department of Management and Budget
MDNRE	Michigan Department of Natural Resources and Environment
MI	Michigan
MIOSHA	Michigan Occupational Safety and Health Administration
MP	Mile Post
NRC	National Response Center
NOAA	National Oceanic and Atmospheric Administration
NPFC	National Pollution Fund Center
OSHA	Occupational Safety and Health Administration
PHMSA	Pipeline and Hazardous Materials Administration
PIO	Public Information Officer
PPE	Personal Protective Equipment
ppm	Parts Per Million
POTW	Publicly Owned Treatment Works
QA/QC	Quality Assurance/Quality Control
RP	Responsible Party
SCAT	Shoreline Contamination Assessment Team
START	Superfund Technical Assessment and Response Team
T&D	Transfer and Disposal
UC	Unified Command
USDA	United States Department of Agriculture
USCG	United States Coast Guard
USDOT	United States Department of Transportation
U.S. EPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
yd <sup>3</sup>	Cubic Yards
VOCs	Volatile Organic Compounds

## **6.0 Source of Additional Information**

### **6.1 Additional Information**

For additional information please refer to <http://www.epa.gov/enbridgespill.html>. For sampling analysis data, please see <http://www.epa.gov/enbridgespill/data/datawater.html>.

### **6.2 Reporting Schedule**

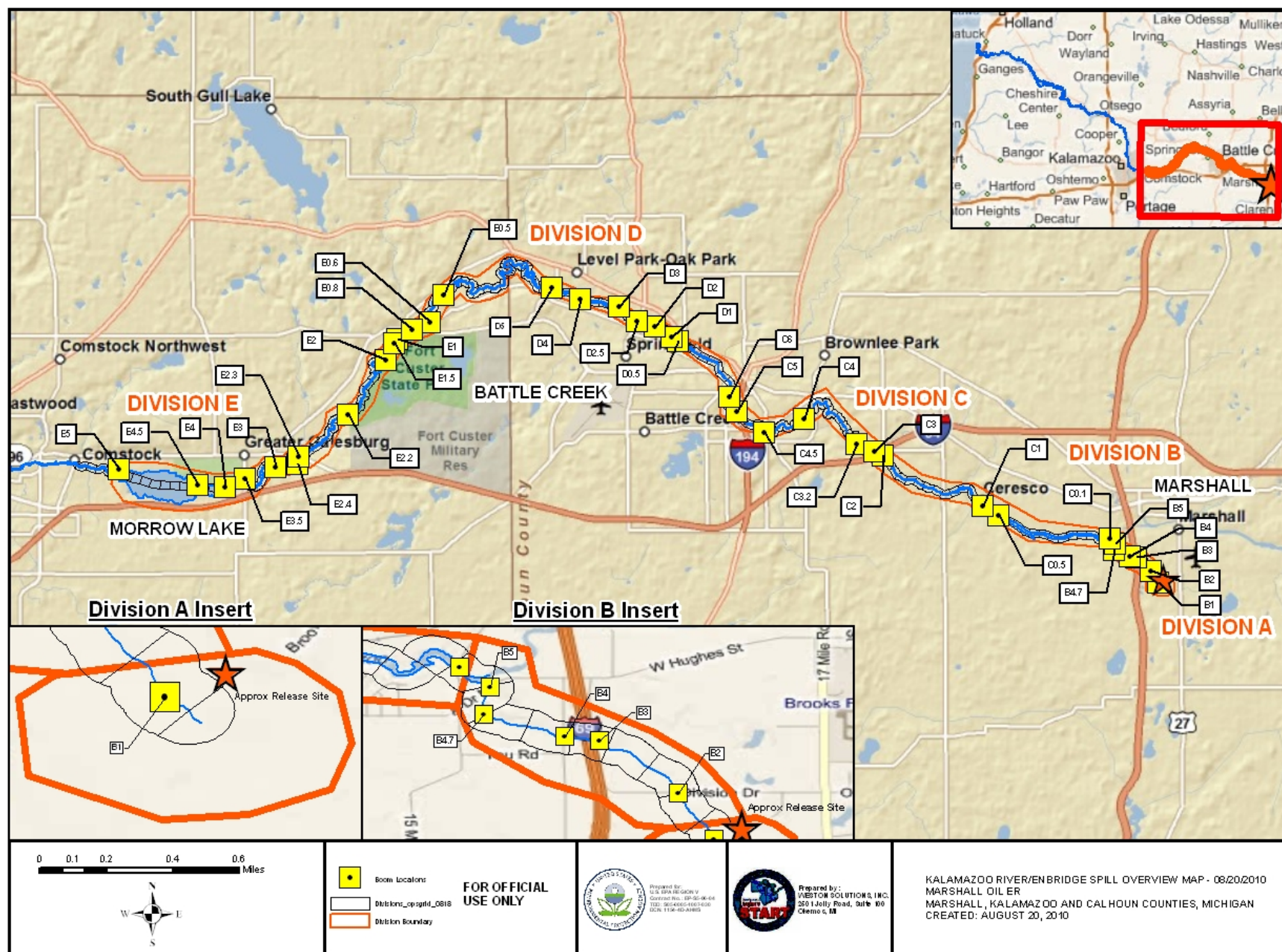
SITREPs have been created daily and will continue until the UC establishes a different reporting schedule, in conjunction with the planning cycle.

## **7.0 Situational Reference Materials**

See attached Map, entitled “Kalamazoo River/Enbridge Spill Overview Map,” for more information.

See attached Unified Command Organizational Charts (ICS 207) entitled, “ Enbridge Pipelines Response Unified Command”, “Planning Section”, “Operations”, and “Division C.”









## Enbridge Pipelines Response Unified Command

### INCIDENT COMMANDERS

[Ralph Dollhopf (EPA)] / Jeff Kimble (EPA) / **Mike Masterson** (MDNRE) /  
Matt Saxton (CCEM) / Joe Frost (CCPHD)  
F/Lt. Bonnie Kanicki-Wilson (Michigan State Police) / Dave Schnieder (Kalamazoo Cty Sheriff's Office) /  
Mike McKenzie (City of Battle Creek) / Leon Zupan (Enbridge)  
DEPUTY ICs: Mark Durno (EPA) / Byron Neiles (Enbridge)

### LIAISON OFFICER

Claudia Schrull (Enbridge) /  
**Rachel Krivinchuk** (Enbridge)  
Connie Puchalski (EPA)

### SAFETY OFFICER

Mike Koby (Enbridge)  
John Glover (EPA)  
Fred Whitted (Enbridge)

### IC ADVISOR

Steve Kegelmann  
(Enbridge)

### INFORMATION OFFICER

Terri Larson (Enbridge) Kelsey Myhre (Enbridge) Mick  
Hans (EPA) David Polish (EPA) Jeff Kelley (EPA),  
Greg Becoat (EPA)

### OPERATIONS SECTION

Mike Moeller (Enbridge)  
Tom Fridel (Enbridge)  
Ed Blanchard (Enbridge)  
**Theresa Holz** (EPA)  
Myles Bartos (EPA)

### PLANNING SECTION

Mark Hamilton (Enbridge)  
Lori Muller (EPA)

### LOGISTICS SECTION

Lyle Meena (Enbridge)  
Steve Ostrodka (EPA)  
Greg Crable (EPA)  
Jane Neumann (EPA)

### FINANCE SECTION

Howard Brown (Enbridge)  
Darlene Hainer (EPA)  
Richard Hackley (EPA)

### 6 BRANCHES

(See Ops Chart)

(See Page 2)

### GROUND SUPPORT

Alie Muneer (EPA)

### SUPPLY MANAGER

Jodie Opie (EPA)

### ORDERING MANAGER

Kristen Wiitala (Enbridge)

### FACL

Diana Gountanis  
(EPA)

### SECURITY

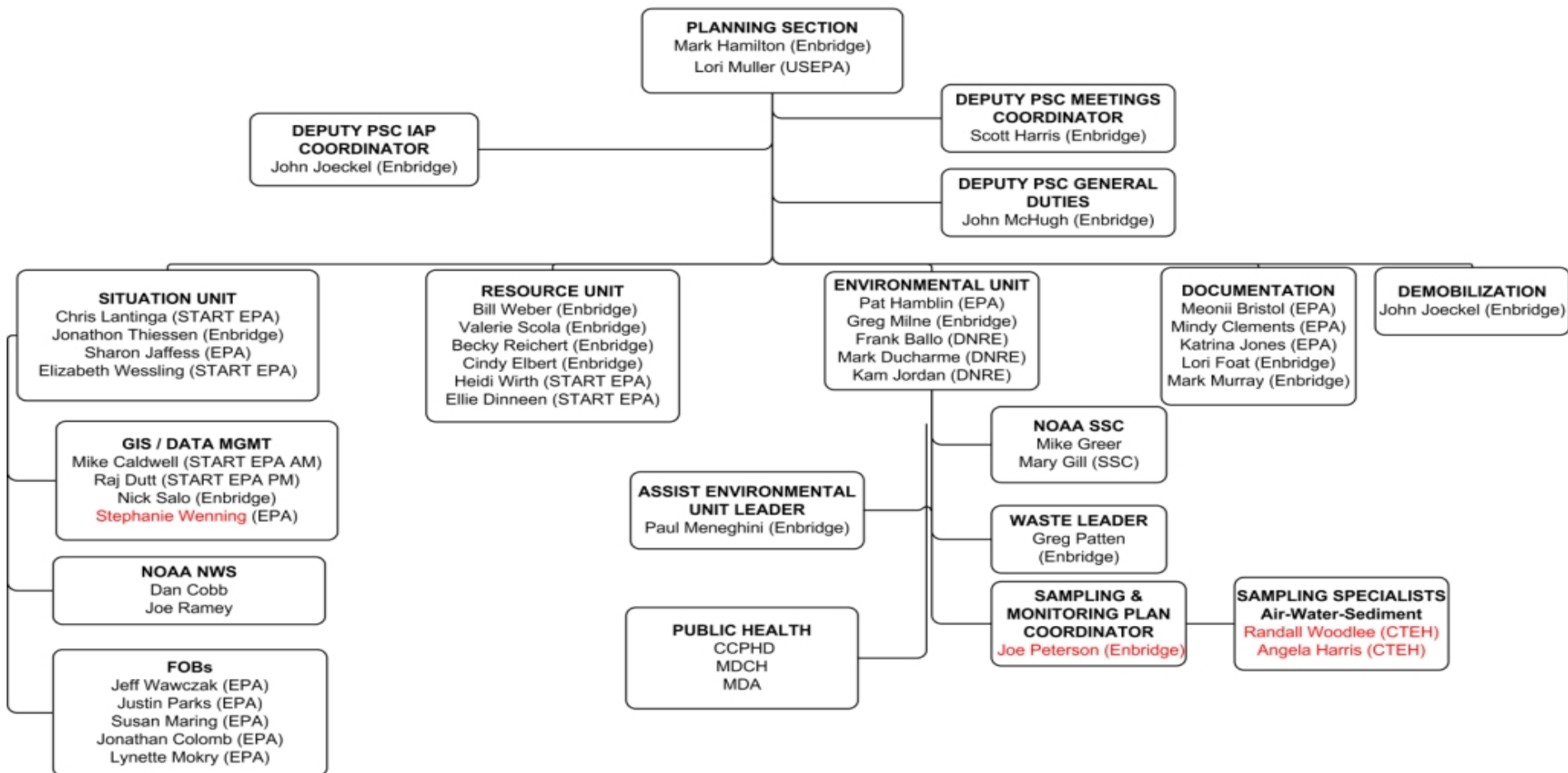
Sean Evans  
(Enbridge)

### COMMS UNIT

Thomas Matheson (EPA)  
Michael Otaru (EPA)

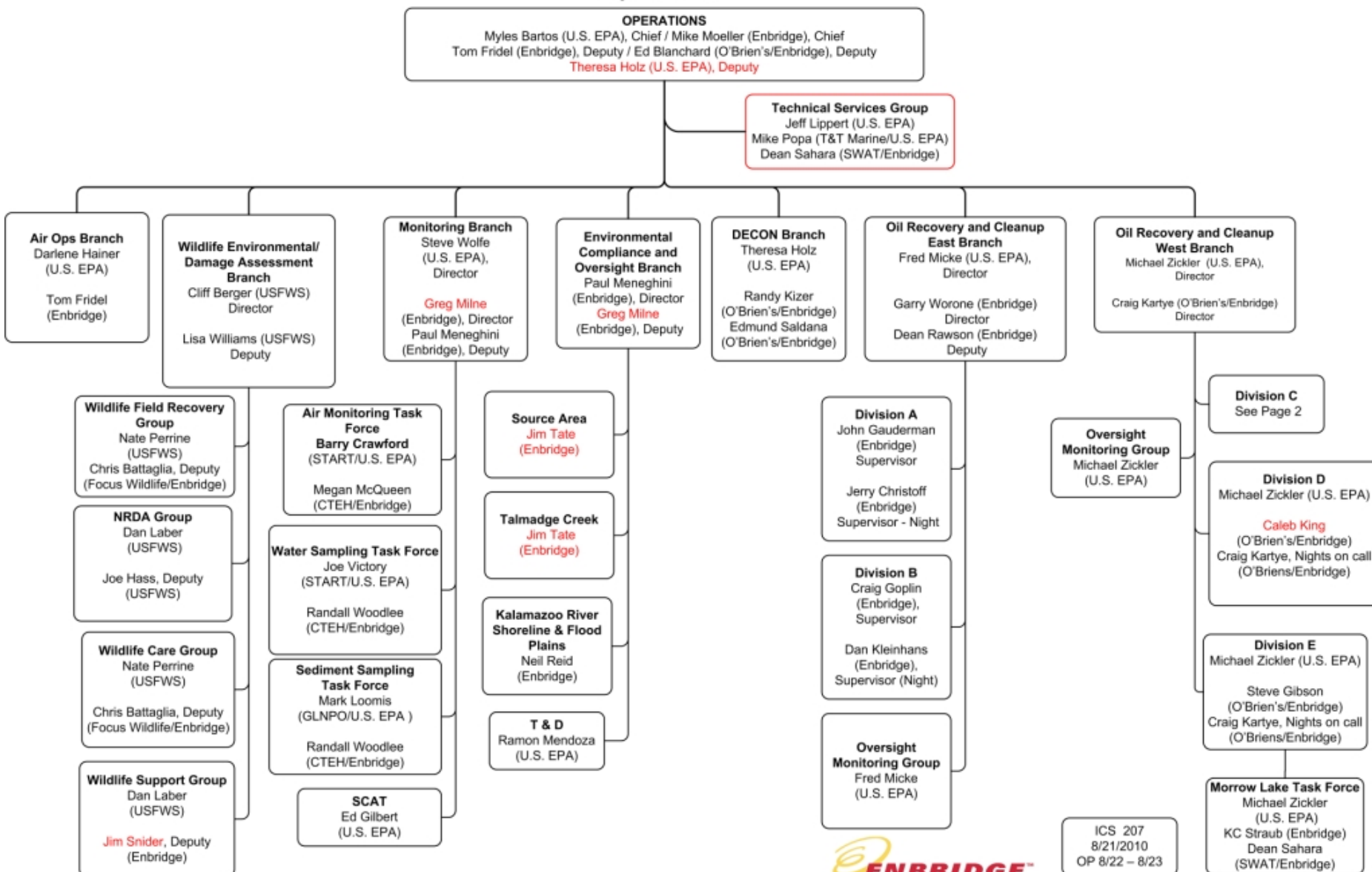


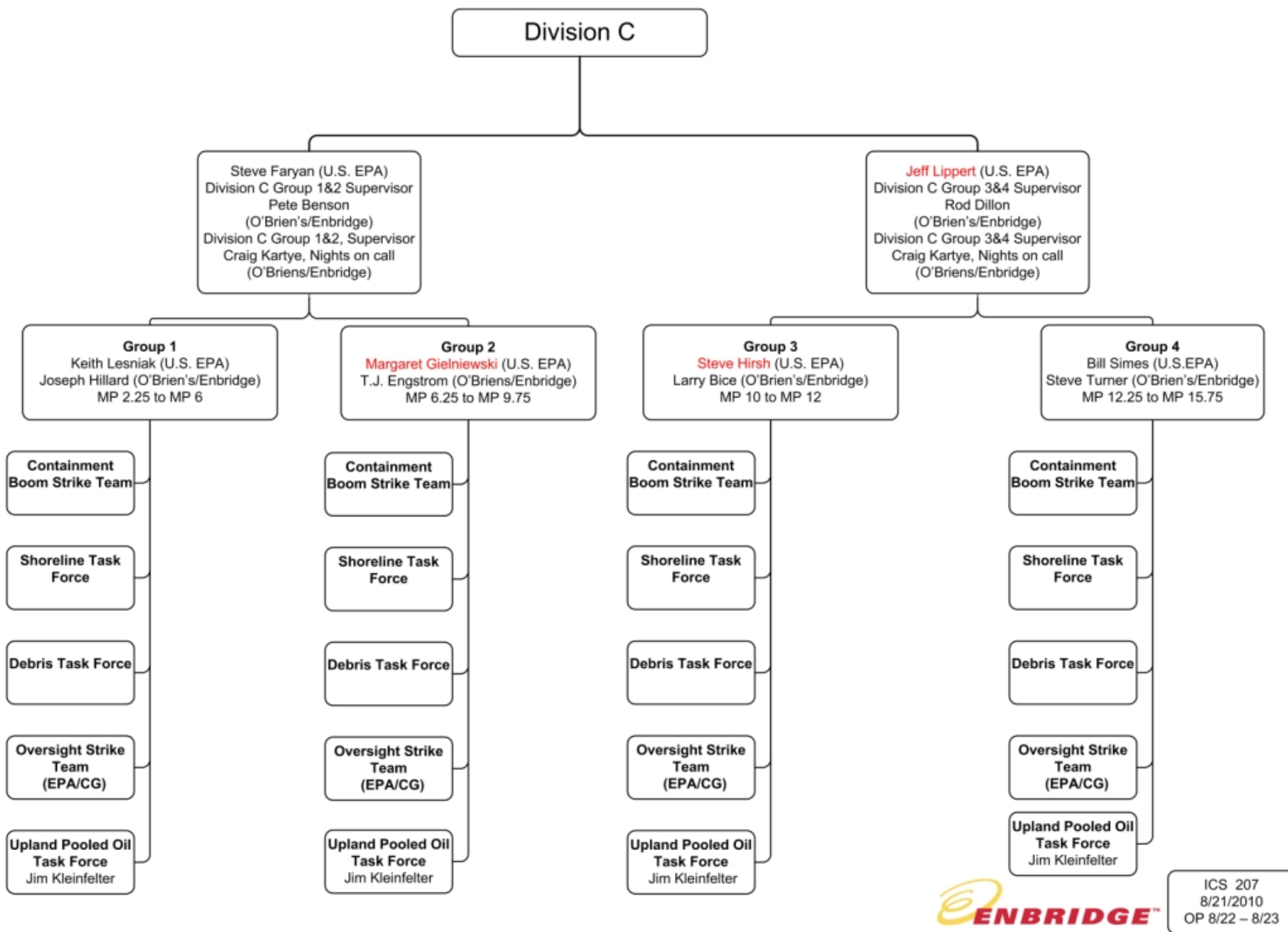
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## Operations





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